

Prerequisites:

- Each delegate must create a personal profile in WINDA and provide their WINDA ID prior to completing GWO training.
- In order to attend a refresher module, the initial training for the corresponding module is a prerequisite. Refresher training must occur before the expiry of the previous training record's validity period.
- Participants must hold a valid GWO ART-Nacelle, Tower & Basement Rescue Module; GWO BST-Working at Heights; GWO BST-First Aid and GWO BST-Manual Handling certificates to participate in ARTR.

Course Length: 20 hours. Course length shall vary depending on the number of delegates.

Class Size: The maximum number of delegates that may be trained and tested per instructor shall be twelve (12) in the classroom session and four (4) in the practical session.

Course Objectives: This training is conducted in accordance with the GWO Advanced Rescue Training Refresher (ARTR) Standard and will enable participants to perform entry-type injured person rescue operations, in a Wind Turbine Generator (WTG), using industry standard rescue equipment, rescue methods and techniques.

The aim of the ARTR Standard is to review and build on previously gained knowledge and skills from the ART training as well as working at heights and manual handling training through theoretical and practical training.

Successful completion of this course results in the following certificates:

- Hub Spinner & Inside Blade Rescue Refresher (ART-HR)
- Nacelle, Tower and Basement Rescue Refresher (ART-NR)
- Working at Heights Refresher (WAHR)
- Manual Handling Refresher (MHR)

Course Design:

- Power Point© / Lecture / Audio Video / Visual Aids
- Practical Exercises

Successful Course Completion:

- Active participation in theory and successful completion of practical session is mandatory.
- If a course participant fails to meet the demands of the ARTR module, they shall attend a new ARTR Module.

Course Content Summary:

- Classroom
- Practicals

Breaks: 10 minutes (approximately every hour)

Lunch: 1 Hour, if applicable

Course Outline:

- Introduction
- Emergency response plan in your own organization
- Measures to prevent injury during training
- Head support during rescue
- Packaging the injured person
- Lowering/raising rescue system
- Hub, Spinner and Inside Blade Rescue (HSIBR)
 - Hub rescue
 - Outside evacuation
- Nacelle, Tower and Basement Rescue Refresher
 - Knowledge Review
 - Manual Handling
 - Working at Height
 - Rescue from ladder
 - Self-evacuation
 - Evacuation of an injured person from the nacelle to the base of the tower
 - Rescue from enclosed space
 - Rescue from crawl space
 - Rescue up
- Evaluation

Practical Session:

The Practical training shall verify that the delegate is able to demonstrate the following:

- Proper warm-up techniques
- Understanding of ART equipment
- Safe / Proper Manual Handling Techniques
- Emergency Response Procedures
- 1st Aid & Casualty Assessment
- Single rescuer Nacelle, Tower, and Basement Rescue (SART-N): Single Rescuer descending and ascending rescue operations from an enclosed space in a WTG nacelle, tower and basement, to a primary assembly, helicopter hoisting platform, or a secondary assembly area

- Single Rescuer Hub, Spinner, and Inside Blade Rescue Module (SART-H): Single rescuer descending rescue operations from a WTG hub, spinner and from inside a blade, to a primary or a secondary assembly area
- Nacelle, Tower, and Basement Rescue (ART-N): Descending & ascending rescue operations from an enclosed space in a WTG nacelle, tower and basement, to a primary or a secondary assembly area.
- Hub Rescue Module: Descending rescue operations from a WTG hub, spinner and from inside a blade, to a primary) or a secondary assembly area.

Training Center Provided Material:

- Course Materials & equipment
- PPE

Delegate Requirements:

- Must possess good physical health as the practical training is physically demanding.

Reference Material/Documents:

- GWO Requirements for Training V14
- GWO Advanced Rescue Training Refresher Standard V4
- GWO WINDA Sign up – <https://winda.globalwindsafety.org/register/course-participant/>